Natural Products

ChemFaces

Decursinol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Decursinol

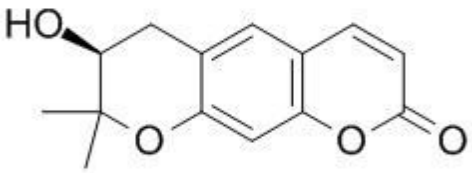
Catalog No.: CFN90496

Cas No.: 23458-02-8

Purity: > 98%

M.F: $C_{14}H_{14}O_4$

M.W: 246.26



Physical Description: Powder

Synonyms: (3S)-3-Hydroxy-2,2-dimethyl-3,4-dihydropyrano[3,2-g][1]benzopyran-8-one.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The roots of *Angelica gigas*.

[Biological Activity or Inhibitors]

Decursinol and decursin inhibit vascular endothelial growth factor (VEGF)-induced angiogenesis by reducing the activation of ERK and JNK in HUVECs, and possess potent in vivo anti-angiogenic activity, coupled with the advantage of oral dosing, thus, these compounds may have the potential for the treatment of cancers dependent on VEGF-induced vascularization.[1]

Decursinol shows an antinociceptive property in various pain models, the antinociception of decursinol may be mediated by noradrenergic, serotonergic, adenosine A(2), histamine H(1) and H(2) receptors.[2]

Decursinol and decursin can protect primary cultured rat cortical cells from glutamate-induced neurotoxicity.[3]

Decursinol and decursin can inhibit the lung metastasis of murine colon carcinoma, they may be beneficial antimetastatic agents, targeting matrix metalloproteinase (MMP) and their upstream molecules.[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method][5]

Mobile phase: Phosphate buffer- Acetonitrile- Sodium laury1 sulfate, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 230 nm.

[Storage]

2-8℃, Protected from air and light, refrigerate or freeze.

[References]

[1] Seung Hwa Sona,Mi-Jeong Kima,Won-Yoon Chunga,*et al. CancerLett.,2009,280(1): 86-92.*

[2] Choi S S, Han K J, Lee J K, *et al. Life Sci., 2003, 73(4):471-85.*

[3] S Y K, Kim Y C. *J Pharm. Pharmacol., 2007, 59(6):863-70.*

[4] Son S H, Park K K, Sun K P, *et al. Phytother. Res., 2011, 25(7):959–64.*

[5] Kang Y G, Lee J H, Chae H J, *et al. Korean Journal of Pharmacognosy, 2003, 34(3):201-5.*

[Contact]

Address:
S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com
Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com